**Worksheet 1.** **Water Measurement Water Supplier Costs**

## 1a. Water Measurement Water Supplier Capital Costs

**Complete the following worksheet for water measurement capita costs:**

| Capital Cost Category ( a ) | Item ( b ) | Cost ( c ) | Contingency Cost Percent ( d ) | Contingency Cost Dollars ( e ) | Subtotal ( c+e ) ( f ) |
|---|---|---|---|---|---|
| Planning | | | 0.15 | | |
| Land | | | 0.15 | | |
| | | | | | |
| Structure | | | 0.15 | | |
| | | | | | |
| Equipment | | | 0.15 | | |
| | | | | | |
| Mitigation | | | 0.15 | | |
| Other | | | 0.15 | | |
| Subtotal Capital Costs | | | | | 0 |
| Deduct Expected Salvage After 25 Years | | | | | |
| Total Capital Costs | | | | | 0 |
| Capital Recovery Factor (6%, 25 Years) | | | | | 0.0782 |
| Annual Capital Costs (Total Costs x CRF) | | | | | |

**Enter Annual Capital Costs into Worksheet 1c, Column (a)**

## 1b. Water Measurement Water Supplier Annual O&M Costs

**Complete the following worksheet for Water Measurement annual O&M costs:**

| Annual Operating Costs ( a ) | Annual Maintenance Costs ( b ) | Annual Other Costs[1] ( c ) | Total O&M Costs ( a + b + c ) ( d ) |
|---|---|---|---|
| | | | |

[1]Other annual costs not included in O&M, such as annual environmental mittigation costs.

**Enter Total O&M Costs into Worksheet 1c, Colum (b).**

## 1c. Water Measurement Water Supplier Costs/AF Summary

**Complete the following worksheet for Water Measurement cost/af summary:**

| Annual Capital Costs[1] ( a ) | Annual O&M Costs[2] ( b ) | Total Annual Costs ( a + b ) ( c ) | Annual Conserved Water ( AF ) ( d ) | Cost/ AF ( c/d ) ( e ) |
|---|---|---|---|---|
| | | | | |

[1]From Worksheet 1a.

[2]From Worksheet 1b.

**Enter the cost/af onto Worksheet 3, Water Measurement Cost.**

## Worksheet 2. Water Measurement Water Supplier Benefits

### 2a. Water Supplier Avoided Costs-Current Sources

**Complete the following worksheet for current sources of supply that would be avoided with the implementation of the Water Measurement:**

| Sources of Supply Avoided<br>( a ) | Amount of Water (af)<br>( b ) | $ Savings from Potential Pumping (energy) Reduction<br>( c ) | Annual O&M Costs ($/af)<br>( d ) | Sources to be Used as Benefit Measure<br>( e ) |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

**Enter the avoided cost ($/af) from the sources selected into Worksheet 3, Water Measurement Benefit.**

### 2b. Water Supplier Avoided Costs-Future Sources

**Complete the following worksheet for future sources eliminated or delayed because of implementation of Water Measurement:**

| Alternative<br>( a ) | Total Capital Costs<br>( b ) | Capital Recovery Factor1<br>( c ) | Annual Capital Costs ( b x c )<br>( d ) | Annual O&M Costs<br>( e ) | Total Annual Costs ( d + e )<br>( f ) | Annual Yield<br>( g ) | Cost/af ( f / g )<br>( h ) |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

[1]**Fora 25-year period with 6% discount rate.**

**Which alternative is to be selected as benefit measure? Explain:**

**Enter the cost/af value for alternative selected into Worksheet 3, Water Measurement Benefit.**

## 2c. Water Supplier Revenue Effects

**Complete the following worksheet:**

| Parties Purchasing Conserved Water ( a ) | Amount of Water (af) ( b ) | Selling Price ($/af) ( c ) | Expected Frequency of Sales (%)1 ( d ) | Expected Selling Price ($/af) ( c x d ) ( e ) | "Option" Fee ($/af)2 ( f ) | Total Selling Price ($/af) ( e + f ) ( g ) |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

[1]Duringa 25-year analysis period, how many years are water sales expected to occur? For example, water sales to farmers might be expected to occur 90% of the years, whereas the frequency to other agencies might be 50% of the years.

[2]"Option" fees are paid by a contracting agency to a selling agency to maintain the right of the contracting agency to buy water whenever needed. Although the water may not be purchased every year, the fee is usually paid every year.

Enter the expected selling price (revenue) into Worksheet 3, Water Measurement Benefit.

## Worksheet 3. Water Measurement Water Supplier Benefit/Cost Ratio

**Complete the following worksheet:**

| Benefits and Costs | |
|---|---|
| Water Measurement Benefit ($/af)[1] | |
| Water Measurement Cost ($/af)[2] | |
| Benefit/Cost Ratio | |

[1]From Worksheet 2a, 2b or 2c.

[2]From Worksheet 1.